

Figure 1

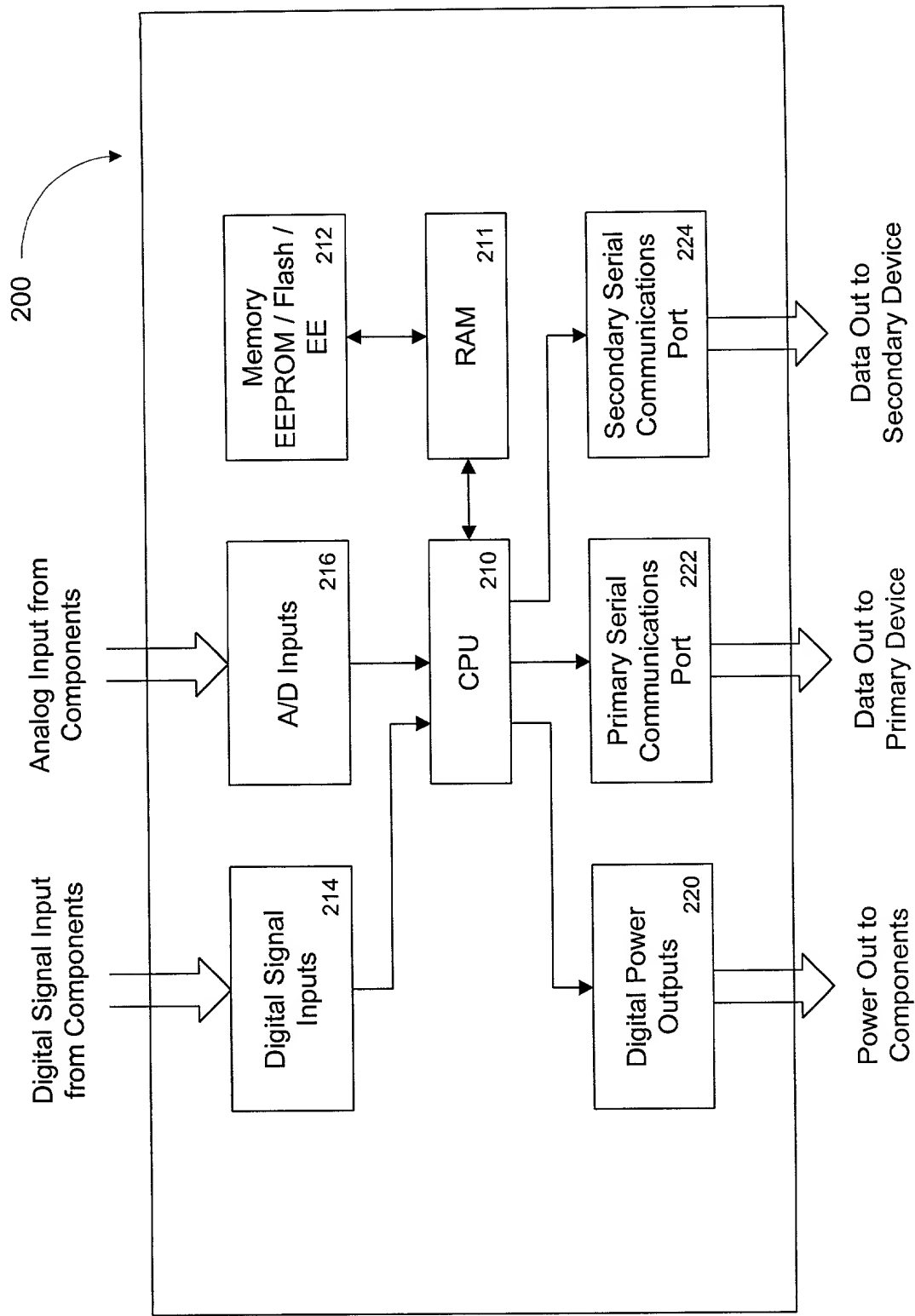
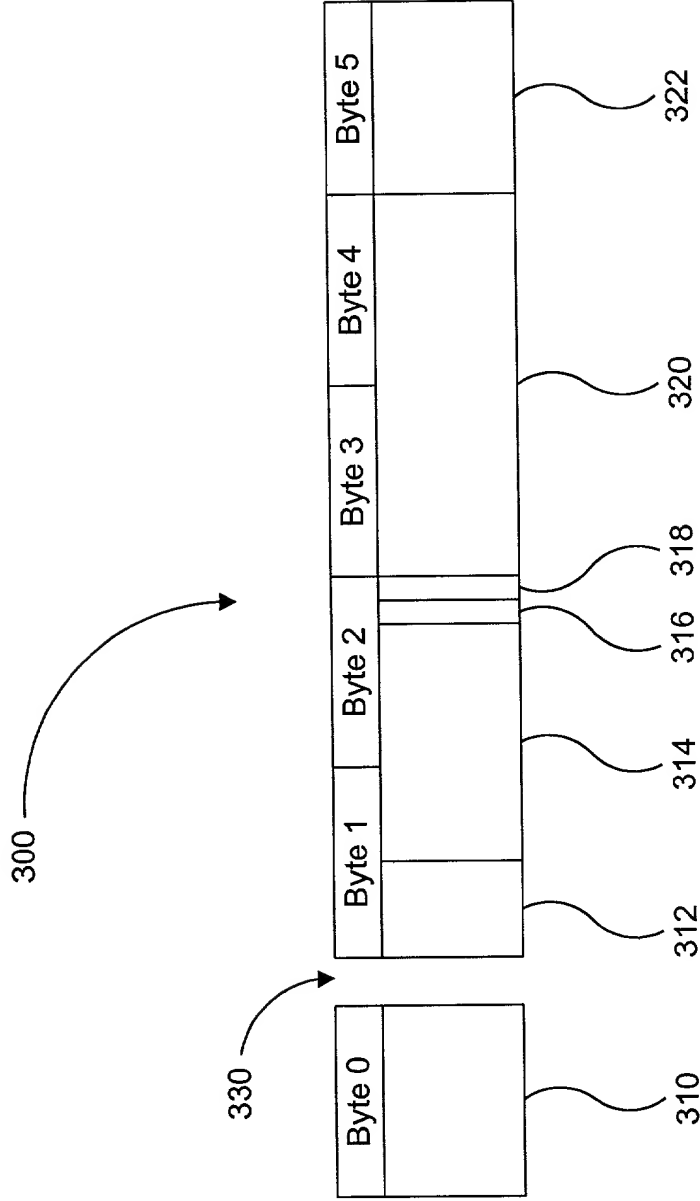


Figure 2



V-MUX SIX-BYTE PROTOCOL

Figure 3

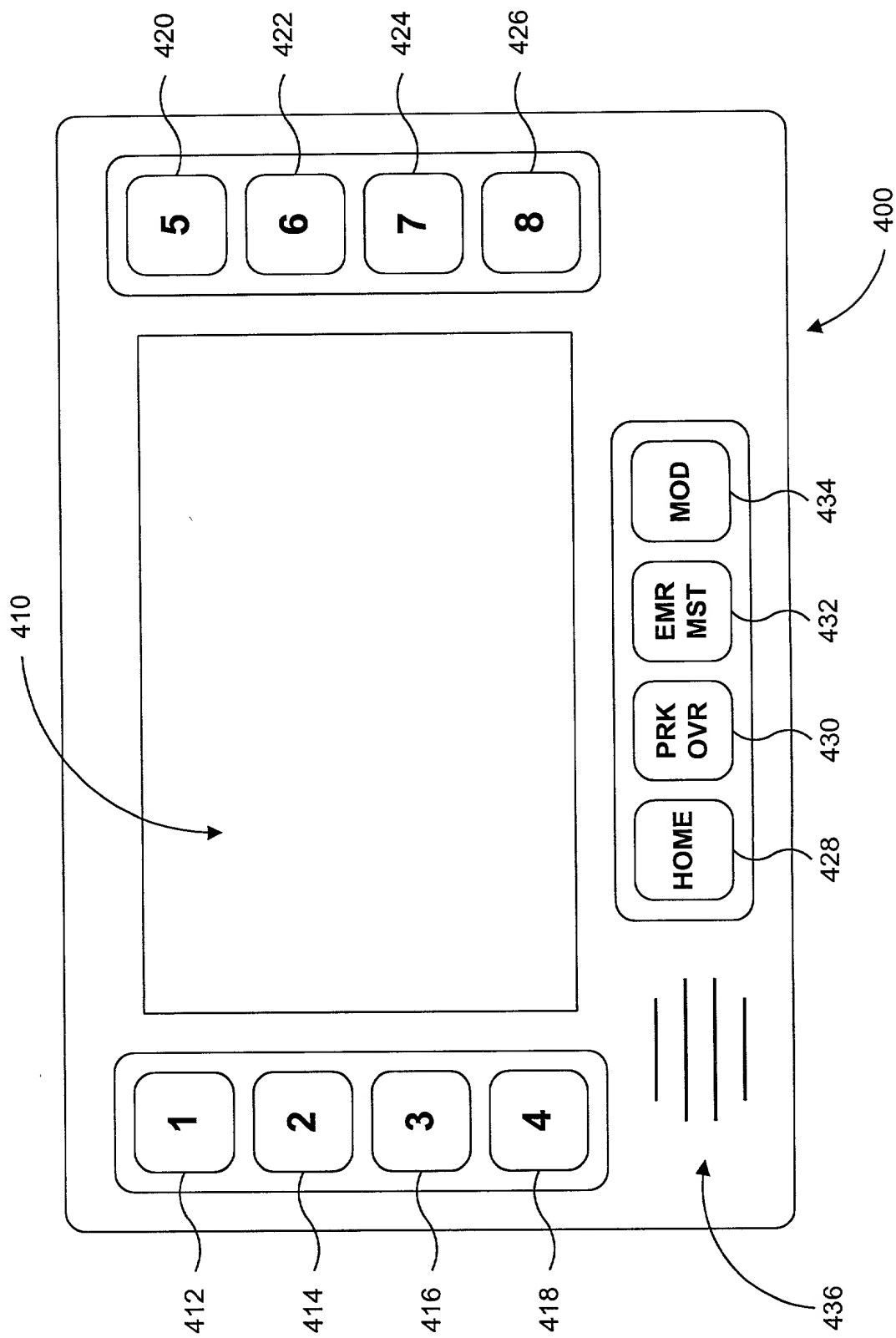
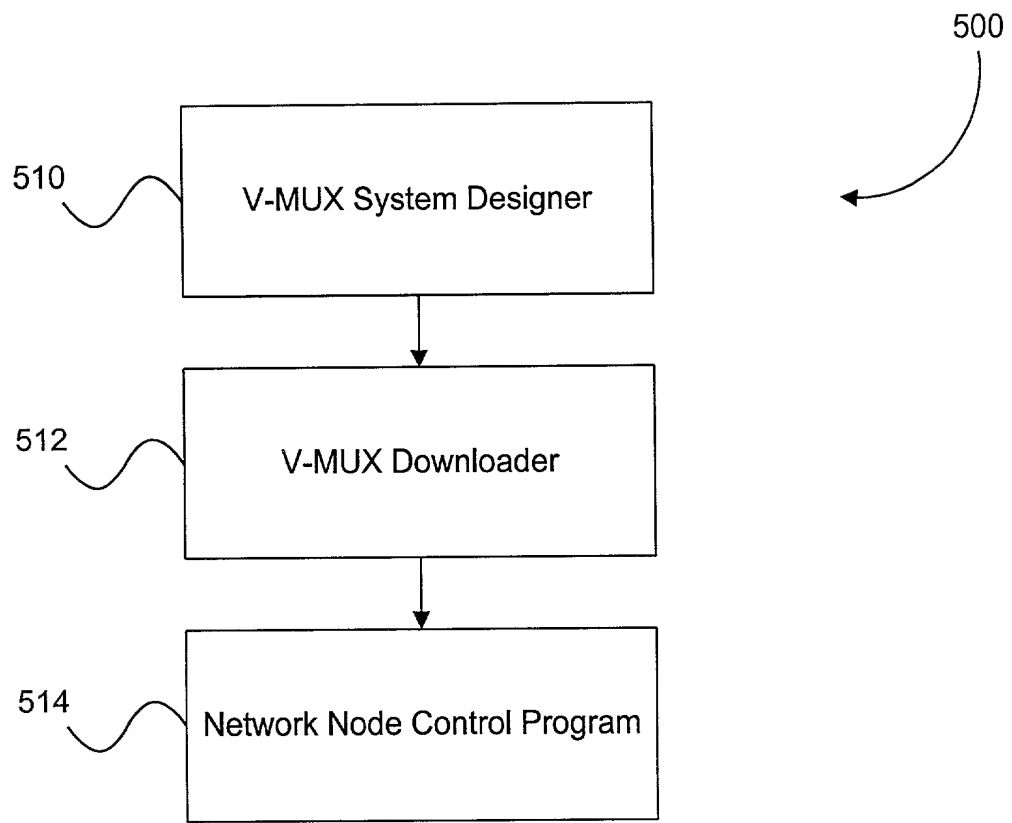


Figure 4



**Figure 5**

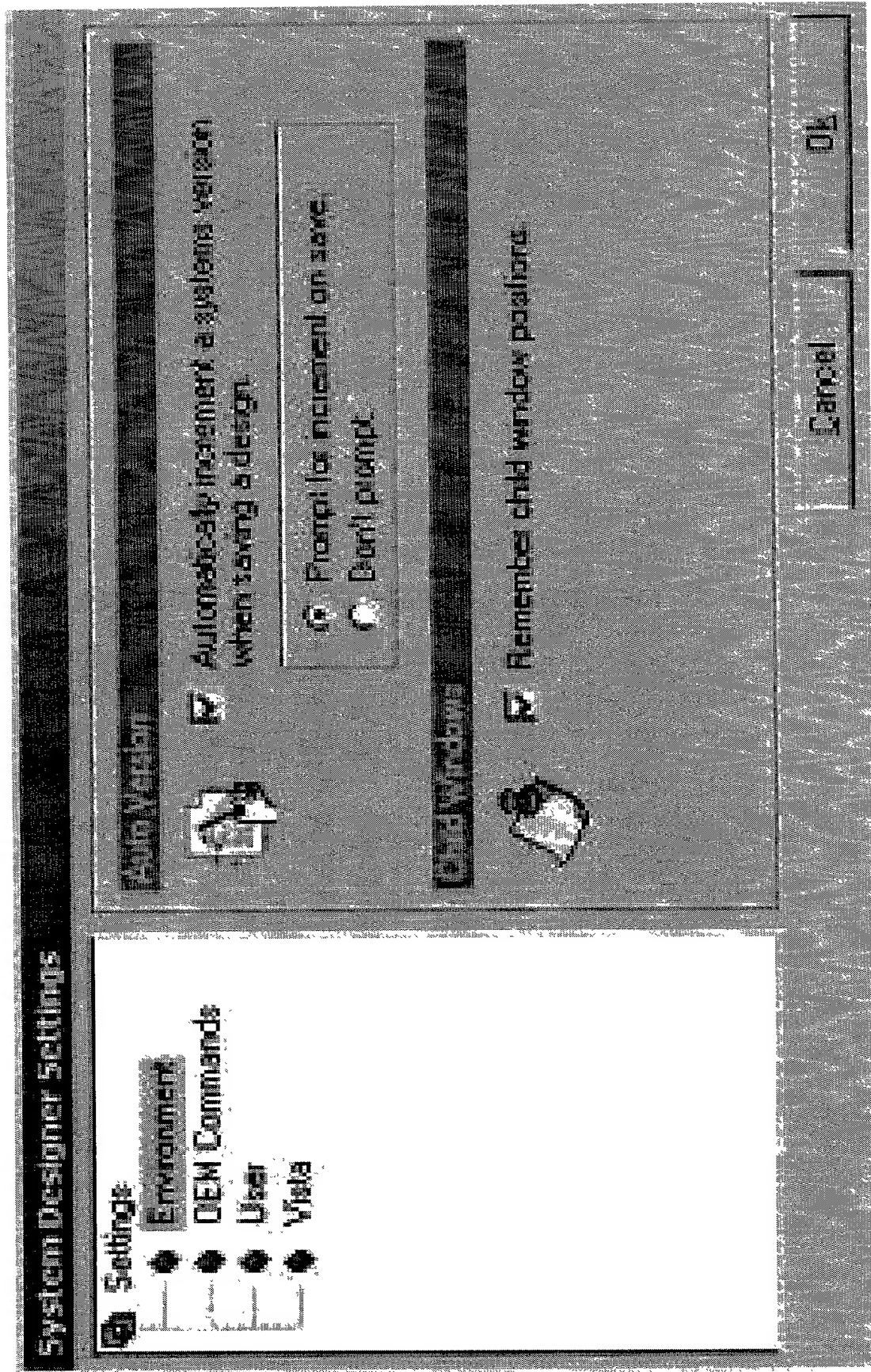


Figure 6A

# System Designer Settings

## Settings

◆ Environment

◆ **DEM Commands**

◆ User

◆ Vista

## DEM Proprietary Commands

- (01) OEM Proprietary 01
- (02) OEM Proprietary 02
- (03) **My Command**
- (04) OEM Proprietary 04
- (05) OEM Proprietary 05
- (06) OEM Proprietary 06
- (07) OEM Proprietary 07
- (08) OEM Proprietary 08
- (09) OEM Proprietary 09
- (10) OEM Proprietary 10

My Command

Set

⚠ Altering previously defined command descriptions will affect previously saved designs!

Cancel

Ok

Figure 6B



System Designer Settings

Settings

Environment

OEM Commands

Usal

Vista

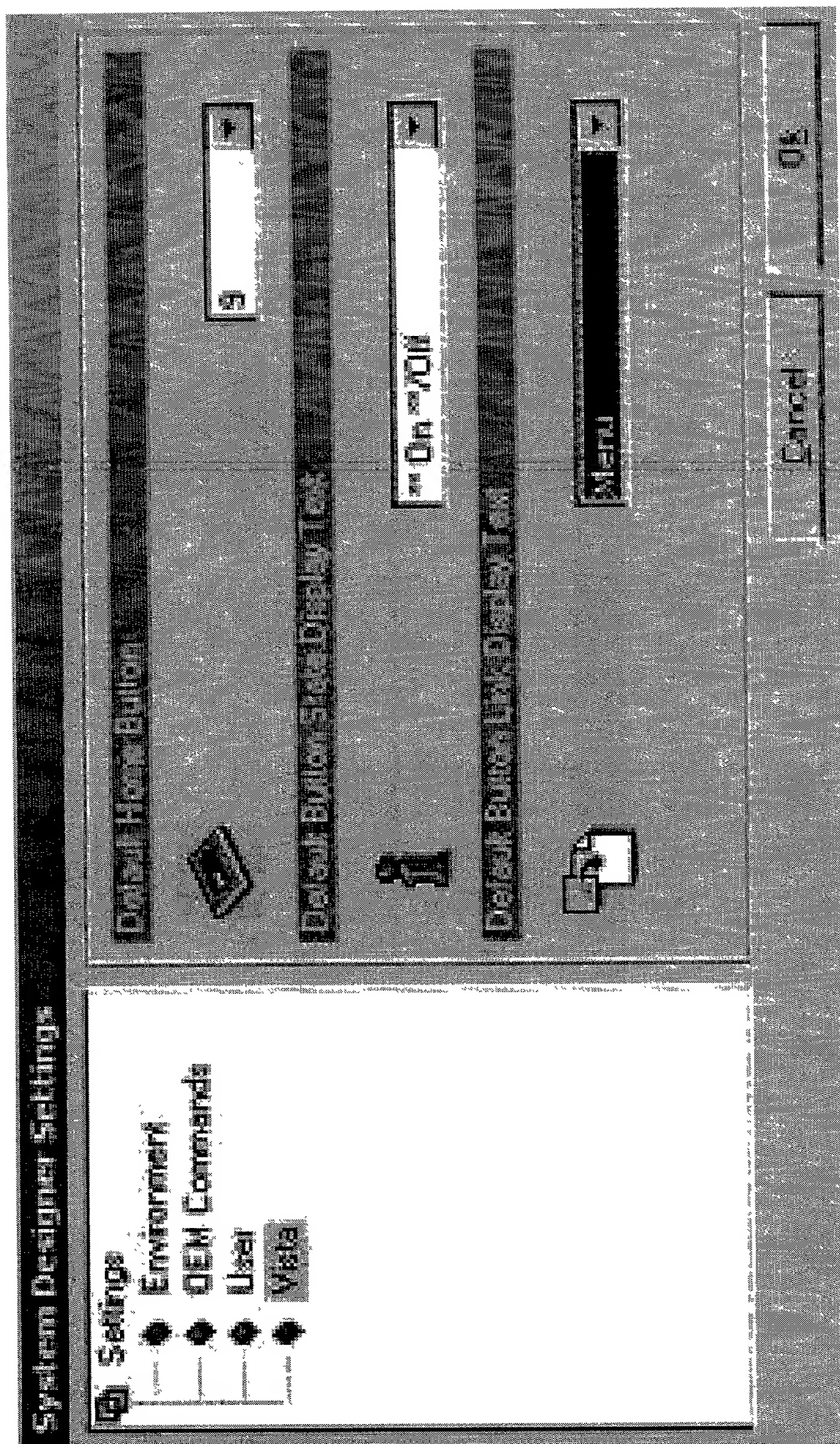
Company Information

Name: ABC Body Builder  
Address: 1234 Main St  
City: Columbus  
State: OH Zip: 43228  
Malta: MUX It Baby!!

User Information

Name: John Multiplex  
Title: Electrical Designer





### Figure 6D

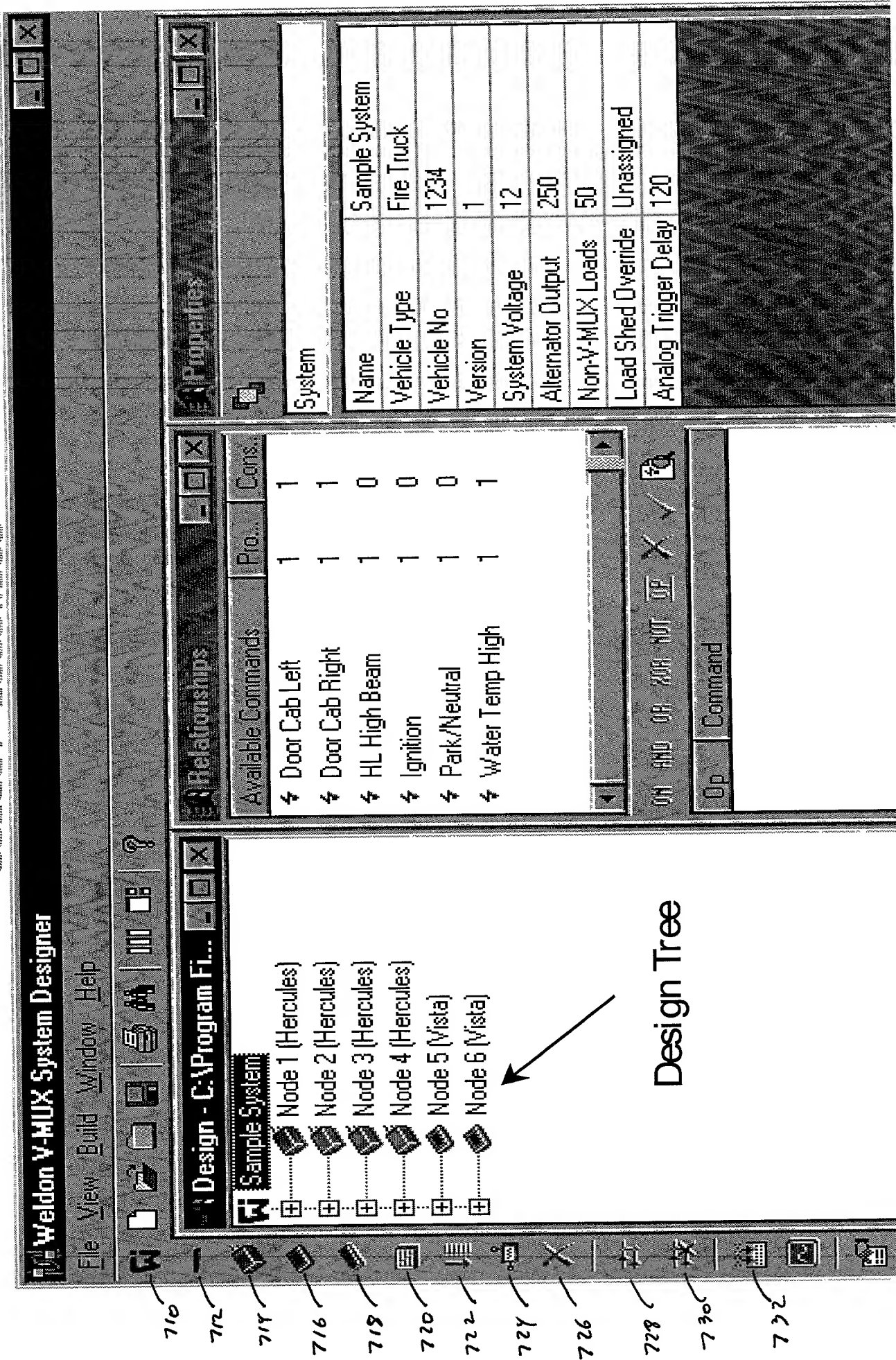


Figure 7

# Properties

Mode 1

810

Name

Mode Type

Load

x Location

y Location

Library Space

Node 1

Hercules

6

Center

Front

0.10240 free

812

Shows the System defined name of this Mode (Read Only).

FIGURE 8

800



# Properties



Input 1

|           |              |
|-----------|--------------|
| Name      | Door Rear    |
| Type      | Latching N/O |
| Command   | Door Rear    |
| On State  | Ground       |
| Three Way | False        |
| Pin       | 34           |

Properties of Door Rear

Figure 9

## Properties



Input 18

|                   |                   |
|-------------------|-------------------|
| Name              | Water Temperature |
| Priority          | Low               |
| Data Type         | Temperature       |
| Calibration Data  | (data)            |
| Send Data As      | Water Temperature |
| Threshold Command | Water Temp High   |
| Pin               | 32                |

FIGURE 10

# Calibration data for Training Temp Sensor (Mode 1)

Save & Close

| ADC | Value |
|-----|-------|
| 123 | 174   |
| 124 | 176   |
| 125 | 177   |
| 126 | 179   |
| 127 | 180   |
| 128 | 182   |
| 129 | 183   |
| 130 | 185   |
| 131 | 186   |
| 132 | 188   |
| 133 | 189   |
| 134 | 191   |
| 135 | 192   |
| 136 | 194   |
| 137 | 195   |
| 138 | 197   |

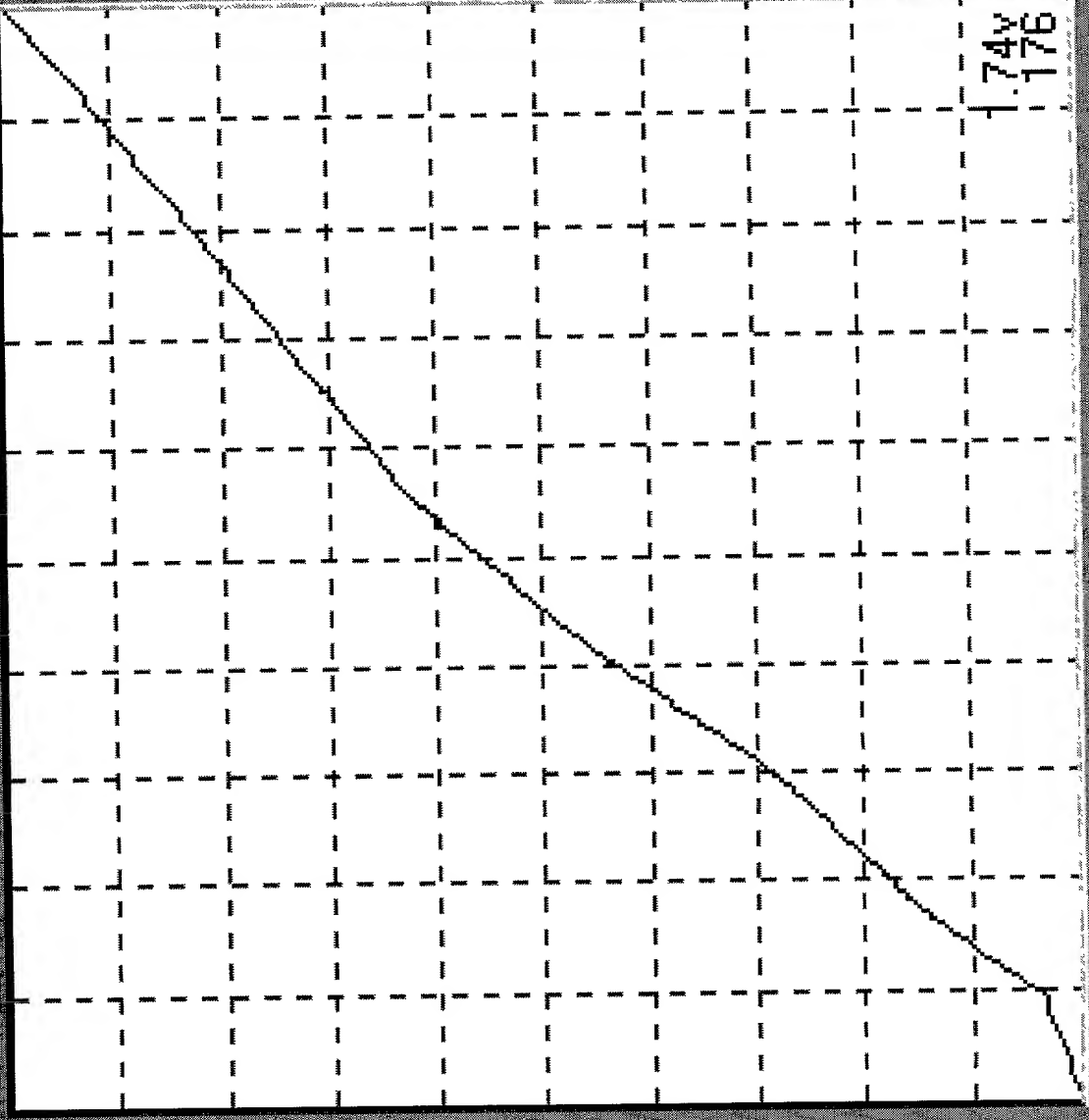


Figure 11



# Properties

## Output 7

|                 |              |
|-----------------|--------------|
| Name            | Warning Horn |
| Device          | Unassigned   |
| Volts           | 12           |
| Wattage         | 12           |
| Amps            | 1            |
| Permanently On  | False        |
| Flashing        | True         |
| Flash Phase     | A            |
| Flash Rate      | 80           |
| PWM %           | N/A          |
| Load Shed Value | No Shed      |
| Sequencing      | 0            |
| Diagnostics     | True         |
| Capacity        | 10.5         |
| Bound To        | (none)       |
| Pin             | H            |

Figure 12



# Relationships

## Available Commands

- \* Door Cab Left
- \* Door Cab Right
- \* HL High Beam
- \* Ignition
- \* **Park/Neutral**
- \* Water Temp High

← 1310

ON AND OR XOR NOT OP

X

✓

Op Command

ON Water Temp High

← 1312

FIGURE 13

# Design - C:\Program Files\...

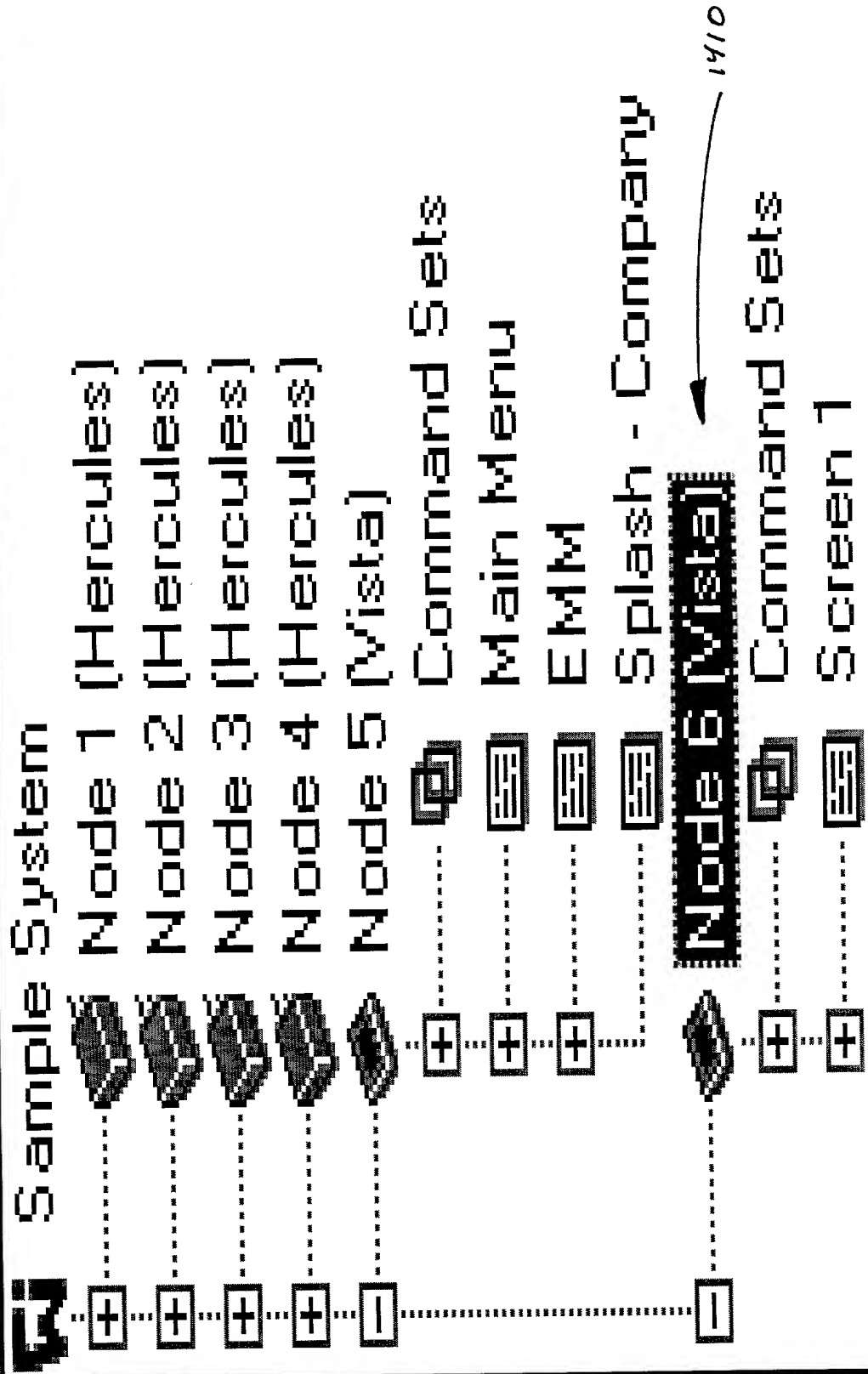
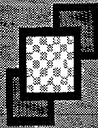
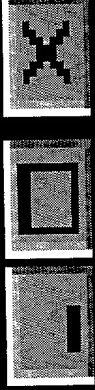


FIGURE 14

# Properties



Screen 1

| Name             | Main Menu |
|------------------|-----------|
| Screen Type      | Menu      |
| On Entry Execute | Nothing   |
| Title Line 1     |           |
| Title Line 2     |           |
| Title Justify    | Center    |
| Information      | N/A       |

FIGURE 15

# Properties

## Node 5

|                       |                  |
|-----------------------|------------------|
| Name                  | Node 5           |
| Node Type             | Vista            |
| Default Title         | ABC Rescue       |
| Default Title Justify | Center           |
| Home Screen           | Main Menu        |
| Splash Screen         | Splash - Company |
| Splash Duration       | 3                |
| Alert Beep            | Style 3          |
| Button Beep           | Style 2          |
| Multi-Level Delay     | 6                |
| Show Analog Warning   | True             |
| Show Diagnostics      | True             |
| Show LoadShed         | True             |
| x Location            | Center           |
| y Location            | Front            |
| Library Space         | 0.10240 free     |

Sets if this display will show analog warning information broadcast by the system.

Figure 16

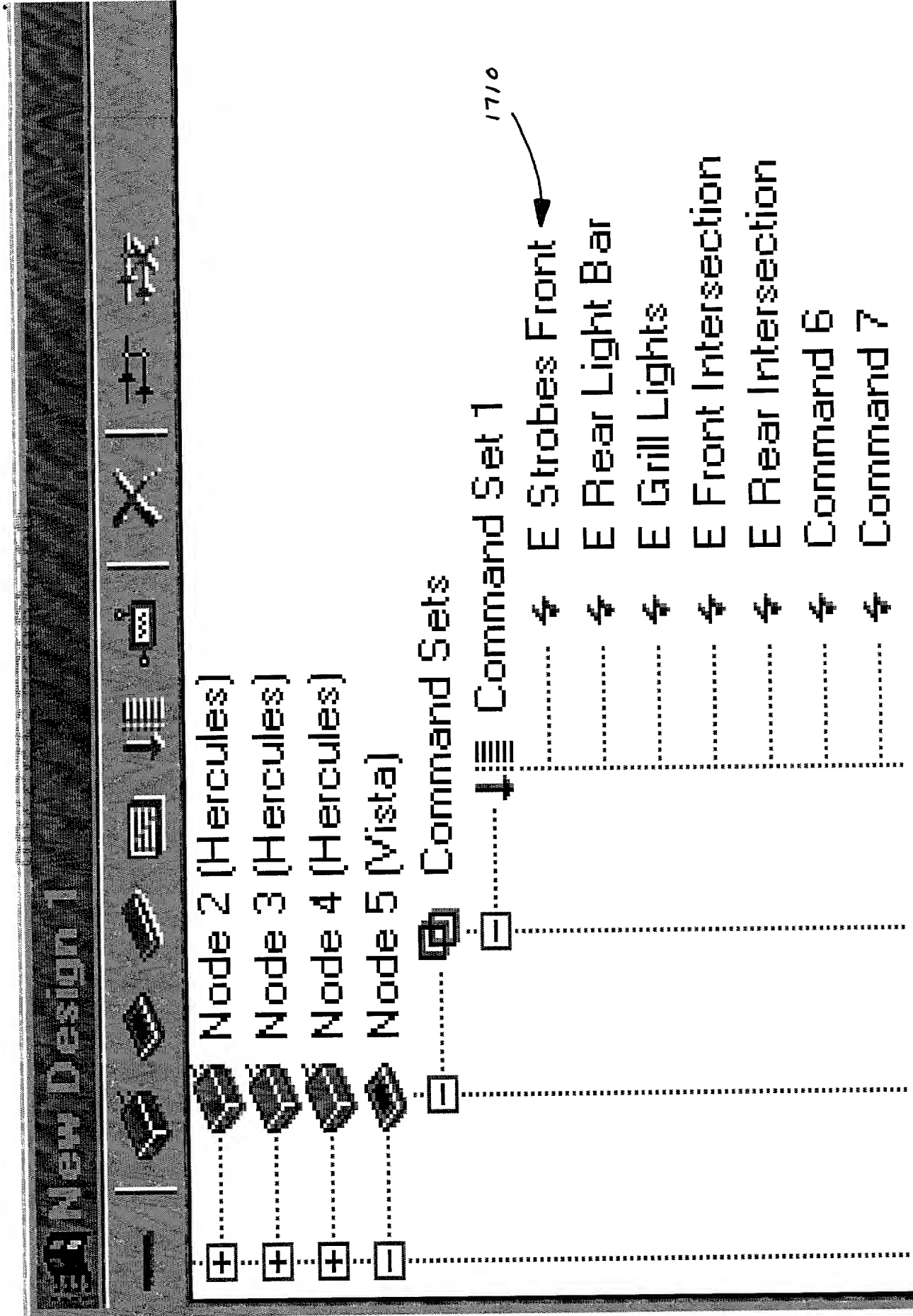


FIGURE 17



# Properties



## Command 1

|          |                 |
|----------|-----------------|
| Name     | E Strobes Front |
| Command  | E Strobes Front |
| State    | On              |
| Extended | False           |
| Data     | 0               |

Properties of E Strobes Front

FIGURE 18

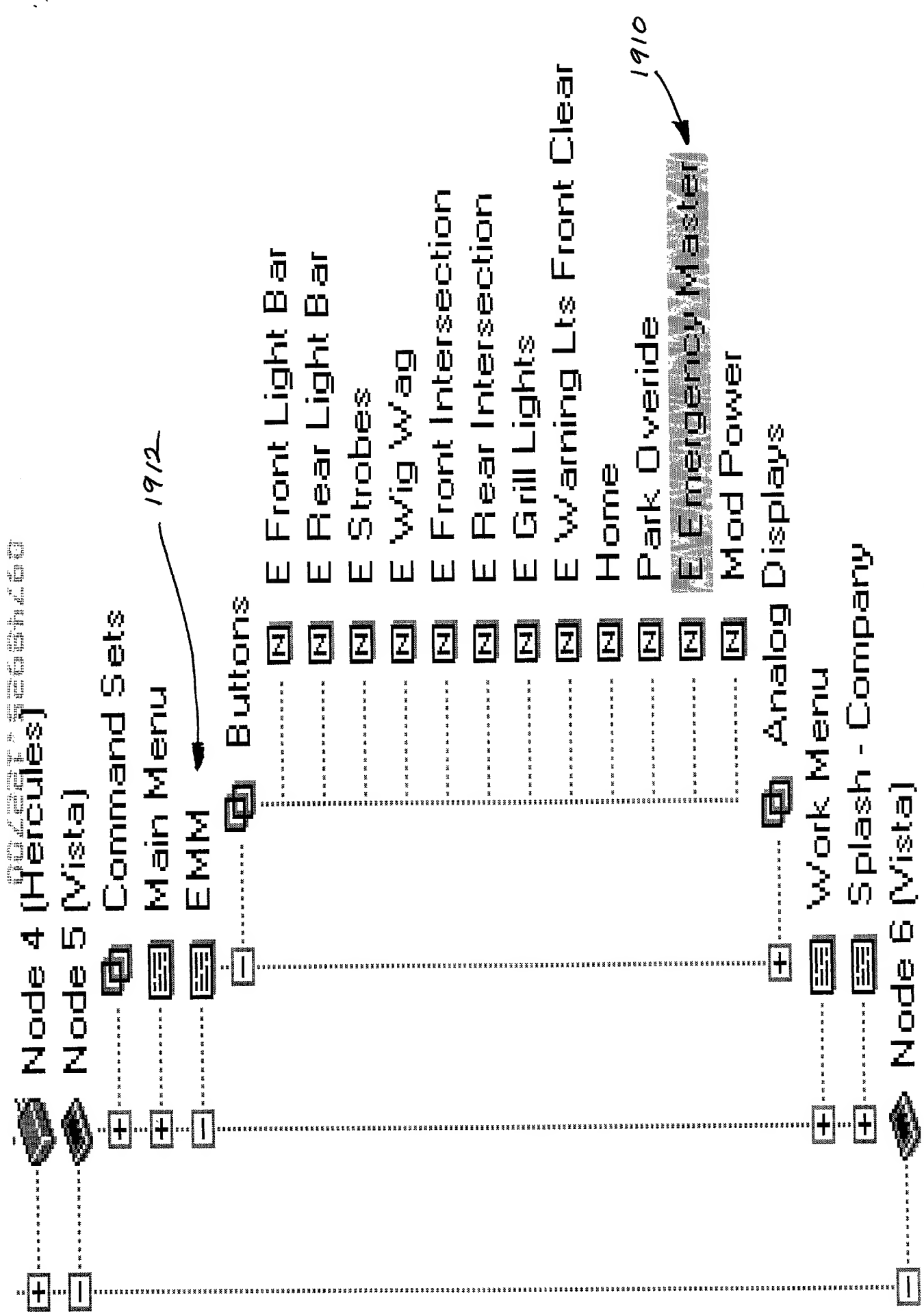


Figure 19



# Properties



## Button 11

|             |                    |
|-------------|--------------------|
| Name        | E Emergency Master |
| Button Type | Switch             |
| Behavior    | Virtual            |
| Command     | E Emergency Master |
| Displays    | ** ON ** / OFF     |
| Off Execute | Command Set 2      |
| On Execute  | Command Set 1      |
| Link        | N/A                |
| Levels      | N/A                |
| Node        | N/A                |
| Channel A   | N/A                |
| Channel B   | N/A                |

## Properties of E Emergency Master

FIGURE 20

# Properties



## Button 11

|             |                                      |
|-------------|--------------------------------------|
| Name        | EMM                                  |
| Button Type | Screen Link                          |
| Behavior    | N/A                                  |
| Command     | N/A                                  |
| Displays    | Menu                                 |
| Off Execute | N/A                                  |
| On Execute  | N/A                                  |
| Link        | EMM<br>Work Menu<br>Splash - Company |
| Levels      |                                      |
| Node        |                                      |
| Channel A   | N/A                                  |
| Channel B   | N/A                                  |

Gets the screen this button links to if <Button Type> is set to <Screen Link>.

FIGURE 21

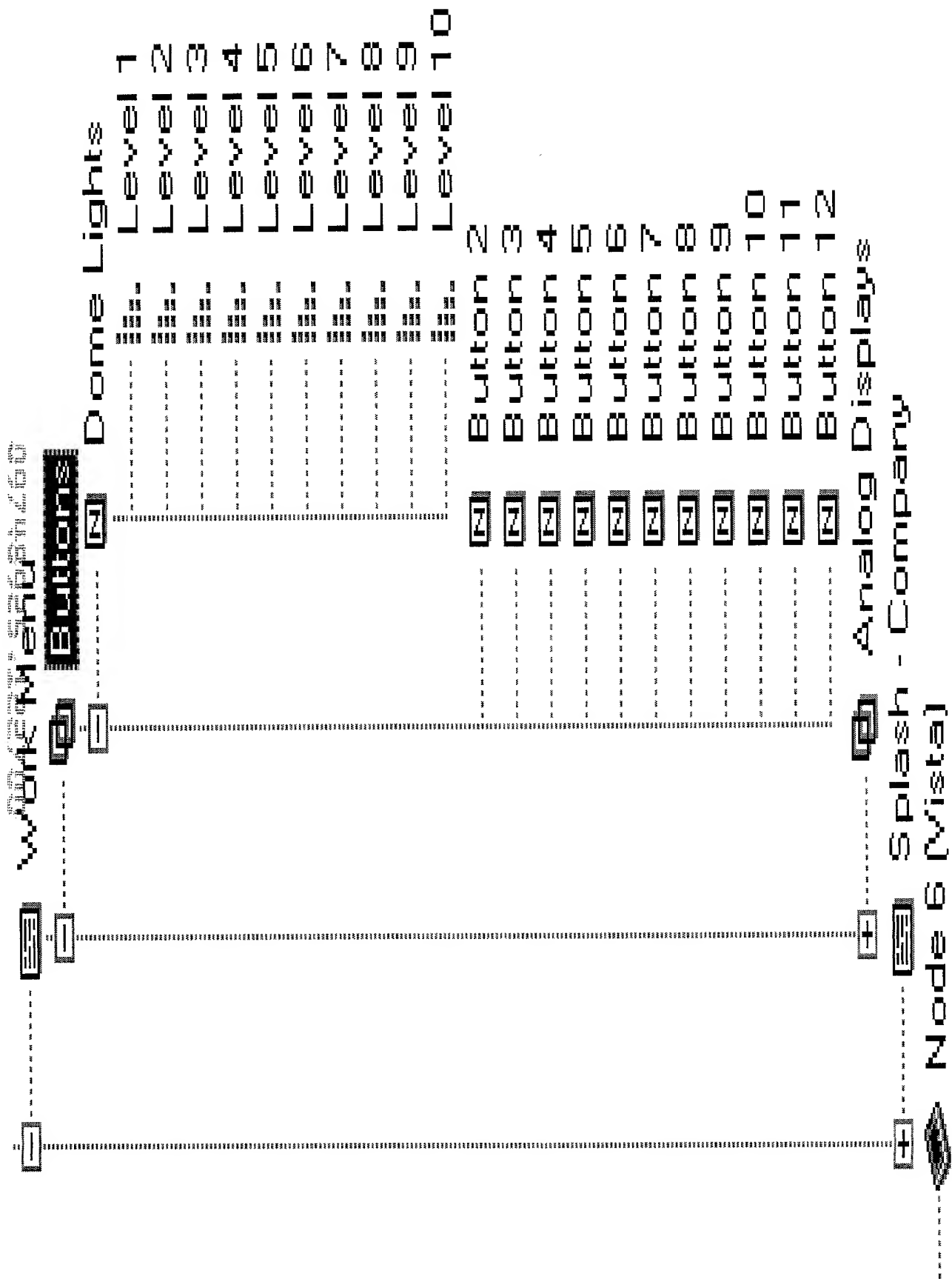


FIGURE 22

# Properties

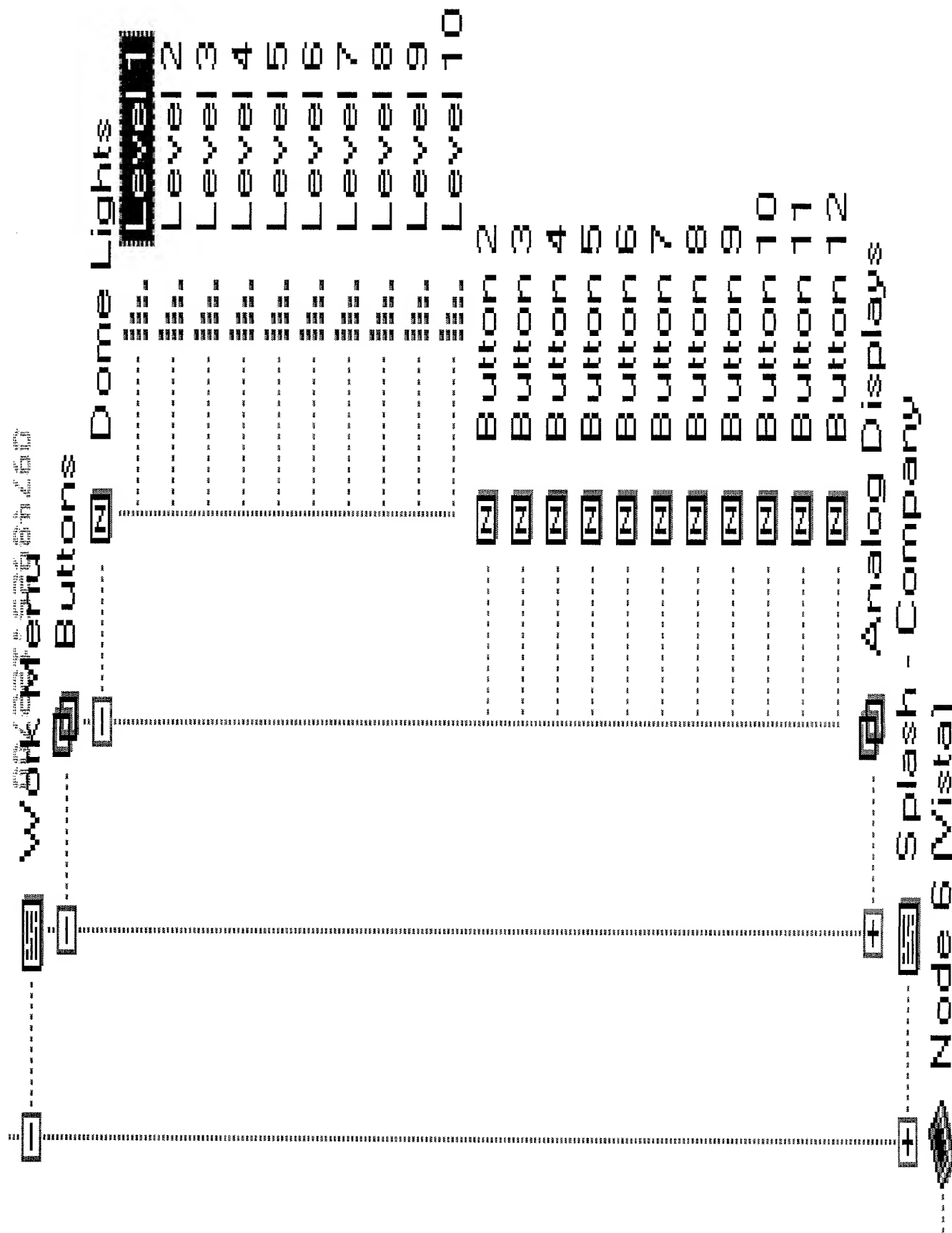


## Button 1

|             |                 |
|-------------|-----------------|
| Name        | Dome Lights     |
| Button Type | Multi-Level PwM |
| Behavior    | N/A             |
| Command     | N/A             |
| Displays    | N/A             |
| Off Execute | N/A             |
| On Execute  | N/A             |
| Link        | N/A             |
| Levels      | 10              |
| Node        | 1               |
| Channel A   | 1               |
| Channel B   | Unused          |

Properties of Dome Lights

Figure 23





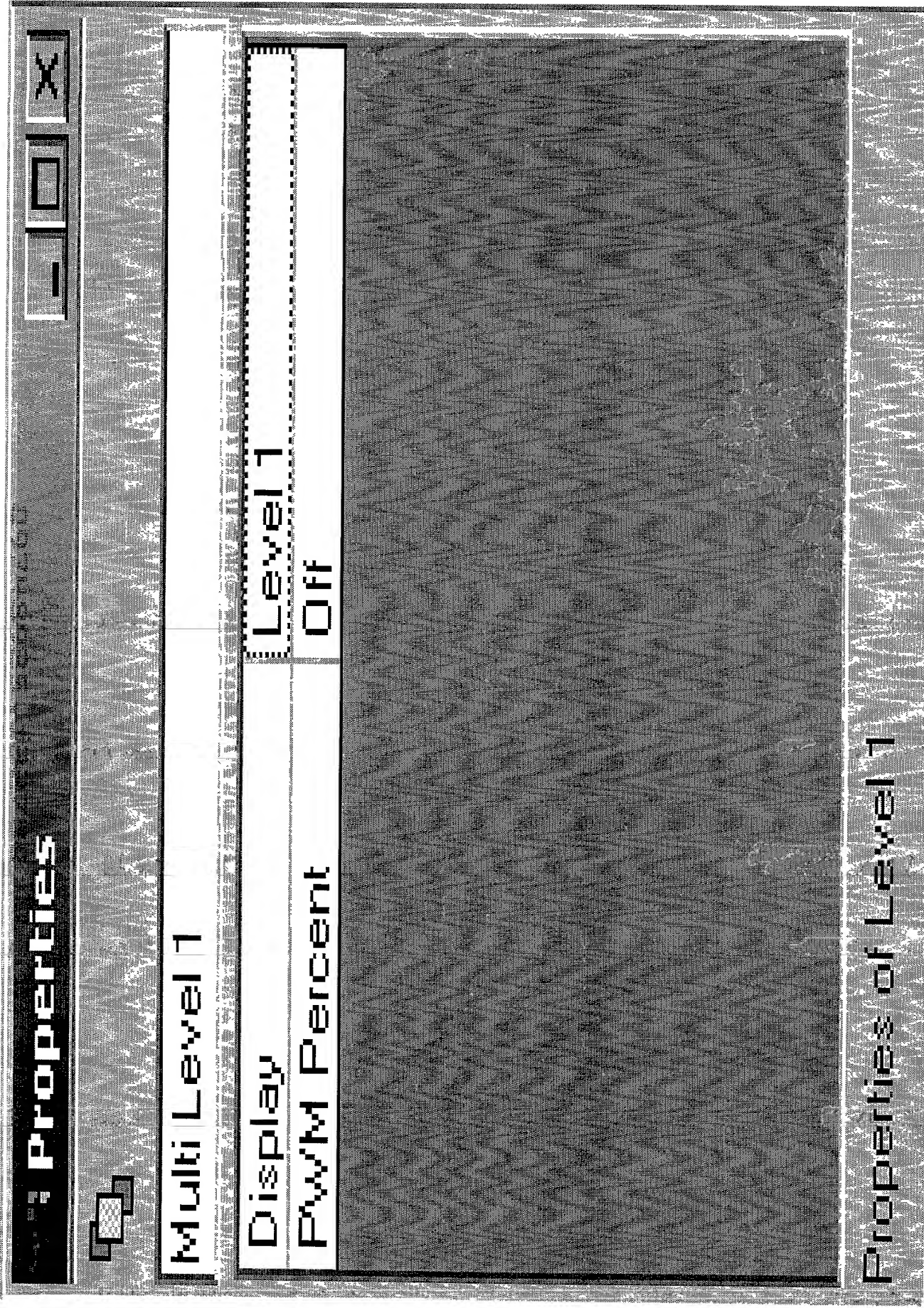


FIGURE 25

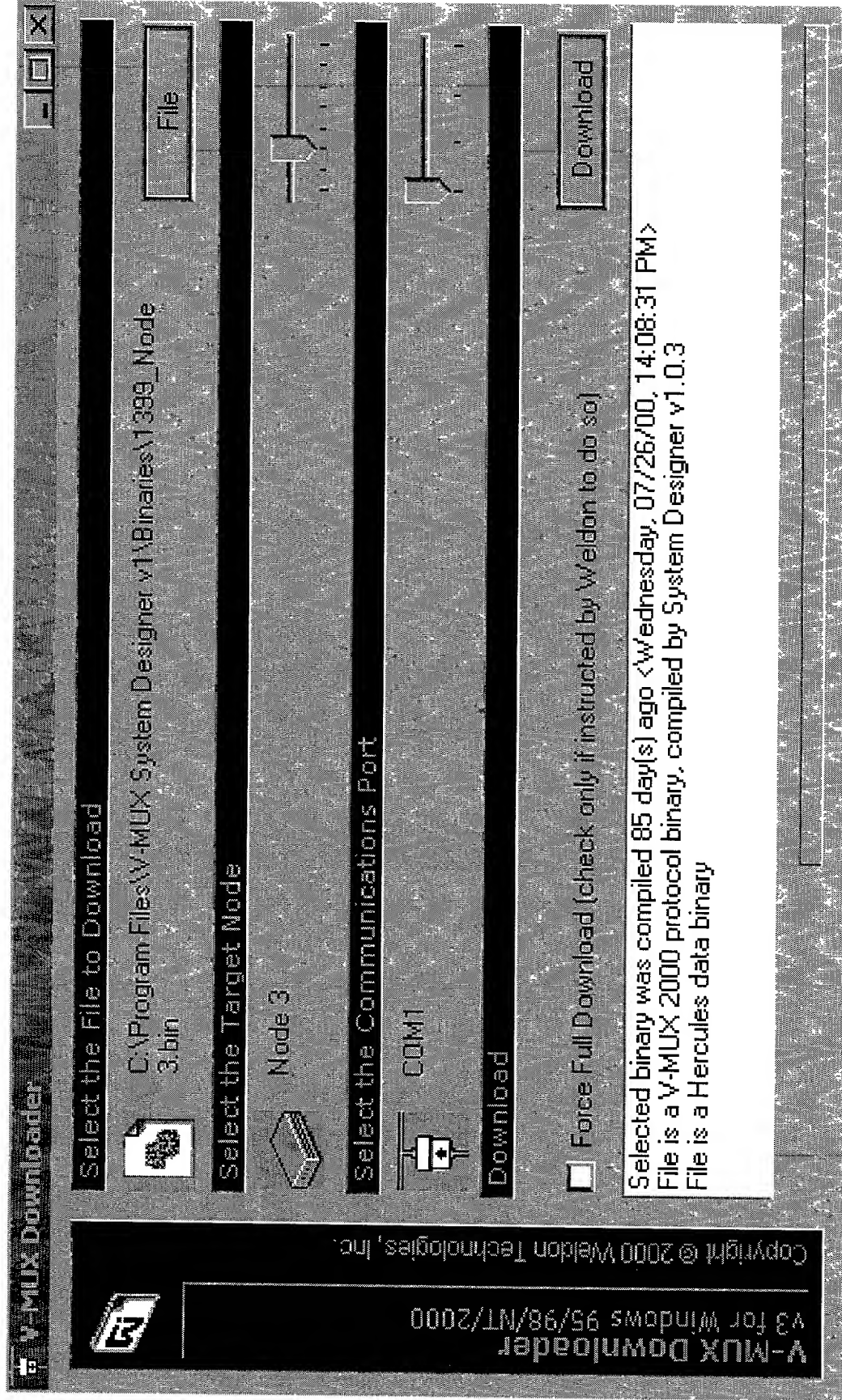


Figure 26